

## <sup>196</sup>Ir

In 1966, Vonach et al. discovered <sup>196</sup>Ir at the Institut für Radiumforschung und Kernphysik der Österreichischen Akademie der Wissenschaften in Vienna as reported in the paper “Untersuchung der bisher Ir<sup>198</sup> zugeschriebenen 50 sec-Aktivität und Neuordnung zum Zerfall von Ir<sup>196</sup>” (1966Vo05). Natural platinum and <sup>196</sup>Pt enriched targets were irradiated with 14 MeV neutrons. <sup>196</sup>Ir was identified by measuring  $\beta$ -,  $\gamma$ - and  $\gamma$ - $\gamma$ -coincidence spectra. “In this way the 50 sec activity assigned so far to Ir<sup>198</sup> could be identified as Ir<sup>196</sup>.” The previously incorrect assignment to <sup>198</sup>Ir mentioned in the quote was made by Butement and Poe who had assigned a 9.7 d half-life to <sup>196</sup>Ir (1954Bu02). Also previously, Bishop had assigned a 2 h half-life to <sup>196</sup>Ir (1965Bi04), however, Jansen and Pauw suggested that Bishop had observed a mixture of <sup>196</sup>Ir and <sup>195</sup>Ir (1967Ja02) and determined a 1.4 h half-life for the <sup>196</sup>Ir ground state.

Adapted from reference (2012Ro36)

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